

Appl. No. 10/517,321
Amendment dated: February 6, 2007
Reply to OA of: October 6, 2006

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-9(canceled).

10(currently amended). A multiple piezoelectric crystal microbalance device comprising a connecting station (100,101) for receiving and individually operating an array of piezoelectric crystal microbalances comprising and a plurality of individually detachable piezoelectric crystal microbalance flow-through cells for engaging with the connecting station, wherein the connecting station comprises:

a connecting panel (112; 113) having an array of cell connecting receptors (118), each cell connecting receptor comprising a receptor connector portion (120) for automatic mating operative engagement with a cell connector portion (24) of [[a]] said piezoelectric crystal microbalance flow-through cell (10)[,]] upon plugging said flow-through cell (10) into the connecting station (100,101), and wherein the receptor connector portion (120) comprises:

a pair of electric connecting ports (126, 128) for communication with a power and measurement means (130) for oscillating a piezoelectric crystal (50) carrying two electrodes (56,62) in a cell compartment (34) of one operatively engaged flow-through cell (10) and for measuring oscillating characteristics of the piezoelectric crystal (50); and comprises

a pair of fluid connecting ports (122, 124) for communication with flowing means (70) for uninterrupted flowing of a solution (75) and a test solution aliquot (83) to, and through, the cell compartment (34).

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11(original). The multiple piezoelectric crystal microbalance device according to claim 10, wherein the individually operated piezoelectric crystal microbalances are electrostatically and electromagnetically shielded from each other.

12(previously presented). The multiple piezoelectric crystal microbalance device according to claim 11, wherein the connecting station (100) comprises connection means (112) for serial interconnection of the flowing of the solution (75) and test solution aliquot (83) to and through the cell compartment (34) of the individual flow-through cells (10).

13(previously presented). The multiple piezoelectric crystal microbalance device according to claim 11, wherein the connecting station (101) comprises connection means (113) for parallel connection of the flowing of the solution (75) and test solution aliquot (83) to and through the cell compartment (34) of the individual flow-through cells (10).

14(original). The multiple piezoelectric crystal microbalance device according to claim 11, further comprising grounding means (108) for electrical grounding of the flow solution (75) and the test solution aliquot (83) to the cell compartment (34) of each of the flow-through cells (10).

Claims 15-34(canceled).